

## Tables

To provide an overview of the tables referenced in the text of this document and presented on the following pages, a brief synopsis of the information contained in the cited tables is presented below.

### Table 2-1: Selected AML Inventory Estimates

Referenced on page 11 of the text, Table 2-1 presents AML inventory estimates from selected agencies, programs, and organizations involved with AML, including the number of AML sites as estimated per agency/association and the source of the data.

### Table 2-2: Reclamation Costs Per State

Table 2-2, as referenced on page 11 of the text, summarizes the estimated reclamation costs per state presented in the 1991 Western Interstate Energy Board's "Inactive and Abandoned Noncoal Mines: A Scoping Study."

### Table 4-1: Federal Regulatory & Programmatic Authorities for Cleaning up AML

Providing an overview of the federal regulatory and programmatic authorities used or available for cleanup of AML, Table 4-1 presents the program and agency names, the program's purpose and scope, as well as any other key points associated with the program and its involvement with AML. This table is referenced on page 21 of the text.

### Table 4-2: Bureau of Land Management (BLM) AML Sites Funded for FY01

Referenced on page 22 of the text, Table 4-2 lists the AML sites under the authority of BLM, which were funded for fiscal year (FY) 2001. The table presents the state, watershed, USGS HUC number, and sites included for each AML project as well as a break-out of the funding dollars per AML project as BLM, U.S. Forest Service, state, or other funding.

### Table 4-3: National Park Service (NPS) AML Reclamation Site Summaries

Table 4-3, which is referenced on page 23 of the text, summarizes the reclamation activities at several NPS AML sites, including the reclamation activities underway at the site, the year reclamation started, the current status of reclamation activities, and partners involved.

### Table 4-4: USDA Forest Service AML Reclamation Site Summaries

Summarizing the reclamation activities at several Forest Service AML sites, Table 4-4 (page 24 of the text) provides information such as the year reclamation started, the reclamation activities underway at the site, and partners involved.

### Table 5-1: State Requirements for Hardrock Mine Sites

Table 5-1, as referenced on page 29 of the text, summarizes the state requirements for hardrock mine sites presented in the 1988 General Accounting Office (GAO) "Federal Management: An Assessment of Hardrock Mining Damage."

### Table 5-2: State and Tribal AML Programs and Inventory Resources

Referenced on page 29 of the text, Table 5-2 provides a comprehensive list of websites that present information on state/tribal AML programs, inventories, or other AML-related resources, organized by state/tribe.

**Table 2-1**  
**Selected AML Inventory Estimates**

Agency/Association	Estimate of AML Sites*	Source of Data
EPA	562	Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) data and information gathered by EPA Regional staff (Regional AML Inventory)
U.S. Geological Survey	116,000 - for the lower 48 continental states	<a href="http://greenwood.cr.usgs.gov/pub/open-file-reports/ofr-96-0549/ofr-96-549.html">http://greenwood.cr.usgs.gov/pub/open-file-reports/ofr-96-0549/ofr-96-549.html</a>
Mineral Policy Center (MPC)	557,650	Mineral Policy Center. "Burden of Gilt." Washington, D.C. June 1993.
<u>Alabama</u> Department of Industrial Relations	15,000 acres	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Alaska</u> Department of Natural Resources/Division of Mines, Land and Water	432	<a href="http://www.dnr.state.ak.us/mlw/mining/aml.htm">www.dnr.state.ak.us/mlw/mining/aml.htm</a>
Bureau of Land Management	106	<a href="http://www.nv.blm.gov/minerals/special/AML_App_2.htm">www.nv.blm.gov/minerals/special/AML_App_2.htm</a>
<u>Arizona</u> State Mine Inspector's Office	8,787	<a href="http://www.asmi.state.az.us/abandoned.html">http://www.asmi.state.az.us/abandoned.html</a>
MPC and EPA research efforts	8,000 - 10,000	MPC and EPA research efforts
Department of Mines and Mineral Resources	4,000	<a href="http://www.admmr.state.az.us/mingen.htm">www.admmr.state.az.us/mingen.htm</a>
Bureau of Land Management	2,008	<a href="http://www.nv.blm.gov/minerals/special/AML_App_2.htm">www.nv.blm.gov/minerals/special/AML_App_2.htm</a>
<u>Arkansas</u> Department of Pollution Control and Ecology	5,000 acres	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.

Agency/Association	Estimate of AML Sites*	Source of Data
<u>California</u> MPC and EPA research efforts  State Water Resources Control Board/Division of Clean Water Program  Bureau of Land Management	40,000 - 47,000  2,400  688	MPC and EPA research efforts  Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.  <a href="http://www.nv.blm.gov/minerals/special/AML_App_2.htm">www.nv.blm.gov/minerals/special/AML_App_2.htm</a>
<u>Colorado</u> Department of Natural Resources; MPC and EPA research efforts  Inactive Mine Reclamation Program  Bureau of Land Management (Colorado)	8,000 - 23,000  22,000  2,600	MPC and EPA research efforts; <a href="http://mining.state.co.us/dmginactive.html">http://mining.state.co.us/dmginactive.html</a>  Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.  <a href="http://www.co.blm.gov/mines/mine.htm">http://www.co.blm.gov/mines/mine.htm</a>
<u>Florida</u> Department of Natural Resources/Bureau of Mine Reclamation	49,000 acres (clay settling ponds); 13,000 acres (non-clay settling ponds)	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Idaho</u> MPC and EPA research efforts  Department of Health and Welfare/Division of Environmental Quality  Bureau of Land Management	8,000 - 16,000  8,700  400	MPC and EPA research efforts  Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.  <a href="http://www.nv.blm.gov/minerals/special/AML_App_2.htm">www.nv.blm.gov/minerals/special/AML_App_2.htm</a>
<u>Illinois</u> Department of Mines and Minerals	35,000 acres	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.

Table 2-1

Agency/Association	Estimate of AML Sites*	Source of Data
<u>Indiana</u> Department of Natural Resources/Bureau of Mine Reclamation	1,200	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Louisiana</u> Department of Natural Resources/Injection and Mining Divisions	900	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Maine</u> Department of Environmental Protection	700	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Maryland</u> Water Resources Administration	200	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Minnesota</u> Department of Natural Resources/Minerals Division	650	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Missouri</u> Department of Natural Resources and Department of Environmental Quality	48,000 acres	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Montana</u> Montana Bureau of Mines and Geology (MBMG)	8,000	<a href="http://www.mbmgs.mtech.edu/env-abldbms.htm#database">http://www.mbmgs.mtech.edu/env-abldbms.htm#database</a>  <a href="http://www.deq.state.mt.us/AbandonedMines/download.asp">http://www.deq.state.mt.us/AbandonedMines/download.asp</a>  Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.  <a href="http://www.nv.blm.gov/minerals/special/AML_App_2.htm">www.nv.blm.gov/minerals/special/AML_App_2.htm</a>
Department of Environmental Quality	6,000	
Department of State Lands/Reclamation Division	19,000	
Bureau of Land Management	6,000	

Table 2-1

Agency/Association	Estimate of AML Sites*	Source of Data
<u>Nevada</u> Nevada Abandoned Mine Lands Environmental Task Force	8,000	<a href="http://www.nbmng.unr.edu">http://www.nbmng.unr.edu</a>
Department of Minerals	50,000	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
Bureau of Land Management (Nevada)	165,000	<a href="http://www.nv.blm.gov/minerals/special/AML_App_2.htm">www.nv.blm.gov/minerals/special/AML_App_2.htm</a>
<u>New Mexico</u> MPC and EPA research efforts	10,000 - 20,000	MPC and EPA research efforts
Energy, Minerals, and Natural Resources/Mining and Minerals Division	7,200	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
Bureau of Land Management	595	<a href="http://www.nv.blm.gov/minerals/special/AML_App_2.htm">www.nv.blm.gov/minerals/special/AML_App_2.htm</a>
<u>New York</u> Department of Environmental Conservation/Division of Mineral Resources	30,000 acres	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>North Carolina</u> Geological Survey Minerals Resources Division	150	<a href="http://www.geology.enr.state.nc.us/Mineral%20resources/Mineral_Resources.html">http://www.geology.enr.state.nc.us/Mineral%20resources/Mineral_Resources.html</a>
<u>Ohio</u> Department of Natural Resources/Division of Reclamation	6,000 acres	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Oklahoma</u> Conservation Commission	26,000 acres	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.

Table 2-1

Agency/Association	Estimate of AML Sites*	Source of Data
<u>Oregon</u> Oregon Department of Environmental Quality/Department of Geology and Mineral Industries	94 - 120	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
Department of Geology and Mineral Industries/Mined Land Reclamation	3,500	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
Bureau of Land Management (Oregon)	323	<a href="http://www.or.blm.gov/Resources/Minerals/aml/indexaml.htm">http://www.or.blm.gov/Resources/Minerals/aml/indexaml.htm</a>
<u>Pennsylvania</u> Department of Environmental Resources/Bureau of Mining and Reclamation	1,300	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>South Carolina</u> U.S. Geological Survey	greater than 1,000	<a href="http://water.usgs.gov/pubs/FS/FS-040-96/">http://water.usgs.gov/pubs/FS/FS-040-96/</a>
<u>South Dakota</u> Department of Environment and Natural Resources	900	<a href="http://www.state.sd.us/denr/DES/mining/acidmine.htm">www.state.sd.us/denr/DES/mining/acidmine.htm</a>
<u>Texas</u> Railroad Commission of Texas/Surface Mining and Reclamation Division	20,000	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Utah</u> MPC and EPA research efforts	20,000	MPC and EPA research efforts
Department of Natural Resources/Division of Oil, Gas, and Mining	25,000 acres	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
Bureau of Land Management (Utah)	478	<a href="http://www.blm.gov/utah/minerals/aml/aml_blm.html">www.blm.gov/utah/minerals/aml/aml_blm.html</a>

Table 2-1

Agency/Association	Estimate of AML Sites*	Source of Data
<u>Virginia</u> Department of Mines/Minerals and Energy	2,000	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Washington</u> Department of Natural Resources' Division of Geology and Earth Resources & the Department of Ecology	3,800	<a href="http://www.dnr.wa.gov/geology/">http://www.dnr.wa.gov/geology/</a>
<u>Wisconsin</u> Department of Natural Resources	200 acres	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.
<u>Wyoming</u> Department of Environmental Quality Abandoned Mine Reclamation Program  Bureau of Land Management, Office of Surface Mining, Wyoming Abandoned Mine Division	3,371    931	Western Interstate Energy Board. "Inactive and Abandoned Noncoal Mines: A Scoping Study." August 1991.    <a href="http://www.nv.blm.gov/minerals/special/AML_App_2.htm">www.nv.blm.gov/minerals/special/AML_App_2.htm</a>

\* Note: AML estimates within the table refer to either total estimated AML sites or AML acres according to individual inventories.

**Table 2-2**

**Reclamation Costs Per State\***

<b>State</b>	<b>Estimated Reclamation Cost</b>
Alaska	\$5 - \$10 million
Arizona	\$600 million
Alabama	\$54 million
Arkansas	\$140 million
Colorado	\$240 million
Florida	\$190 million
Idaho	\$300 million
Illinois	\$100 million
Indiana	\$450 million
Louisiana	\$100 million
Maryland	\$25 million
Mississippi	\$23 million
Missouri	\$1.3 billion
Montana	\$900 million
Nevada	\$2.5 million
New Mexico	\$330 million
North Carolina	\$22 million
Ohio	\$48 million
Oklahoma	\$86 million
Oregon	\$57 - \$77 million
Pennsylvania	\$220 million
Texas	\$1 billion
Utah	\$170 million
Virginia	\$120 million
Wisconsin	\$3 million
Wyoming	\$45 million

\* as presented in the 1991 Western Interstate Energy Board's "Inactive and Abandoned Noncoal Mines: A Scoping Study"



Table 4-1

PROGRAM	AGENCY	PURPOSE	SCOPE	NOTES
Abandoned Mine Land Reclamation Program (AMLR)	U.S. Department of the Interior, Office of Surface Mining, Division of Reclamation Support	<p>Protects the public and corrects environmental damage caused by coal and, to a limited extent, non-coal mining practices that occurred prior to August 3, 1977.</p> <p>Provides for the restoration of eligible lands and waters mined and abandoned or left inadequately restored.</p>	Divided into two programs: State Indian Reclamation Program and the Federal Reclamation Program. Both programs address problems such as dangerous highwalls, slides, subsidence, dangerous portals, and polluted water.	26 States and Indian Tribes with Approved AML Programs
Appalachian Clean Streams Initiative (1994)	U.S. Department of the Interior, Office of Surface Mining Reclamation and Enforcement (OSMRE)	<p>The mission of the Appalachian Clean Streams Initiative is to facilitate and coordinate citizen groups, university researchers, the coal industry, corporations, the environmental community, and local, state, and federal government agencies that are involved in cleaning up streams polluted by acid drainage. The initiative responds to all major interests in this endeavor.</p> <p><a href="http://www.osmre.gov/acsiplan.htm">http://www.osmre.gov/acsiplan.htm</a></p>	"The Appalachian Clean Streams Initiative began as a broad-based program to eliminate acid drainage from abandoned coal mines. Today the program is more focused, with a clear goal of cleaning up acid drainage problems using a combination of private and government resources."	"A major goal of the clean-up plan is to increase the exchange of information and eliminate duplicate efforts among local, state, and federal government agencies working on acid drainage projects."

PROGRAM	AGENCY	PURPOSE	SCOPE	NOTES
Atomic Energy Act (1954)	Nuclear Regulatory Commission; U.S. EPA	The AEA established the Atomic Energy Commission (AEC) to promote the utilization of atomic energy for peaceful purposes to the maximum extent consistent with the common defense and security and with the health and safety of the public. The AEC's successor, the Nuclear Regulatory Commission (NRC), issues licenses for production of uranium and thorium as atomic source materials and disposal of the byproduct wastes from those production facilities. With the exception of in situ leach operations, neither the NRC (or the AEC before it) license or permit mine operations.	When EPA was formed, the AEC's authority to issue generally applicable environmental radiation standards was transferred to EPA. Other federal and state organizations must follow these standards when developing requirements for their areas of radiation protection. EPA issues radiation protection guidance for the public, and sets standards in conjunction with its other operating statutes (e.g., Clean Air Act, SDWA, CERCLA) for radionuclide limits in soil, water and air. Authority for control of radium in mine wastes, though not expressly stated in the statute, resides with EPA.	
Clean Water Act	U.S. EPA	Established basic structure for regulating discharges of pollutants into the waters of the U.S.  Establishes national standards to restore and maintain the chemical, physical, and biological integrity of the Nation's waters.	Gives EPA authority to implement pollution control programs such as setting wastewater standards for industry; continues requirements to set water quality standards for all contaminants in surface waters; illegal for any person to discharge any pollutant from a point source into navigable waters without a permit; address nonpoint sources.	Associated with the Clean Water State Revolving Fund which builds on EPA-State Partnerships
Emergency Planning & Community Right To Know Act (EPCRA) (Title III of SARA)	U.S. EPA and State Emergency Response Commissions	National legislation on community safety; designated to help local communities protect public health, safety, and the environment from chemical hazards.	Congress required each state to appoint a State Emergency Response Commission (SERC). The SERCs divide their states into Emergency Planning Districts and name a Local Emergency Planning Committee (LEPC) for each district.	Broad representation by fire fighters, health officials, government and media reps., community groups, industrial facilities, and emergency managers ensures that all necessary elements of the planning process are represented.

Table 4-1

PROGRAM	AGENCY	PURPOSE	SCOPE	NOTES
National Environmental Policy Act (1969)	BLM and USDA Forest Service	<p>The purposes of this Act are: To declare a national policy which will encourage productive and enjoyable harmony between man and his environment; to promote efforts which will prevent or eliminate damage to the environment and biosphere and stimulate the health and welfare of man; to enrich the understanding of the ecological systems and natural resources important to the Nation; and to establish a Council on Environmental Quality.</p> <p><a href="http://ceq.eh.doe.gov/nepa/regs/nepa/nepaeqia.htm">http://ceq.eh.doe.gov/nepa/regs/nepa/nepaeqia.htm</a></p>	<p>Under the NEPA, the federal government must consider environmental impacts when approving a project, and the Environmental Assessment (EA) is the document that is used to meet that requirement. The goals of an EA are to describe the proposed project, characterize the existing environmental conditions at the site, describe how the project will affect environmental resources, and to identify any unavoidable significant impacts. If the project can be conducted without significant impacts to the environment, the federal agency involved prepares a Finding Of No Significant Impact (FONSI) as part of the project approval process.</p>	
National Forest Management Act (1976)	USDA Forest Service	<p>NFMA reorganized, expanded and otherwise amended the Forest and Rangeland Renewable Resources Planning Act of 1974, which called for the management of renewable resources on national forest lands. It requires the Secretary of Agriculture to assess forest lands, develop a management program based on multiple-use, sustained-yield principles, and implement a resource management plan for each unit of the National Forest System. It is the primary statute governing the administration of national forests.</p> <p><a href="http://ipl.unm.edu/cwl/fedbook/nfma.html">http://ipl.unm.edu/cwl/fedbook/nfma.html</a></p>		

Table 4-1

PROGRAM	AGENCY	PURPOSE	SCOPE	NOTES
Oil Pollution Act	U.S. EPA	This Act streamlined and strengthened EPA's ability to prevent and respond to catastrophic oil spills. Trust fund financed by a tax on oil is available to clean up spills when the responsible party is incapable or unwilling to do it.	Requires oil storage facilities and vessels to submit to the federal government plans detailing how they will respond to large discharges. Requires the development of Area Contingency Plans to prepare for oil spill response on regional scales.	EPA has published regulations for above ground storage facilities; the U.S. Coast Guard has done so for oil tankers.
Organic Act of 1897	USDA Forest Service	This Act allows the Forest Service to manage mining and its impacts by granting the Secretary of Agriculture general power to promulgate rules to regulate "occupancy and use and to "preserve the forests thereon from destruction."	Provided for the administration of National Forests, and the Multiple Use-Sustained Yield Act of 1960 (16 USC 528) establishes the legal mandate that the National Forests are to be administered for outdoor recreation, range, timber, watershed, and wildlife and fish purposes. The Multiple Use-Sustained Yield Act further states that management of National Forest System lands should not affect the use or administration of the mineral resources in these lands.	
Rural Abandoned Mine Program (RAMP) <sup>1</sup>	Dept. of Agriculture's Natural Resources Conservation Service	RAMP restores agricultural land disturbed by strip mining.		Originally included in the AML program of SMCRA  (Critics) Excessive overhead and needless duplication of other federal and state reclamation efforts  (Proponents) Underfunded and unable to fulfill its goals and realize potential efficiencies

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<sup>1</sup> Thompson, Duane, A. "The Rural Abandoned Mine Program—A Fact Sheet." CRS Report for Congress, Environment and Natural Resources Policy Division. June 12, 1995.

PROGRAM	AGENCY	PURPOSE	SCOPE	NOTES
Safe Drinking Water Act	U.S. EPA	The SDWA was established to protect the quality of drinking water in the U.S.	Focuses on all waters actually or potentially designed for drinking use, whether from above-ground or underground sources. Authorizes EPA to establish safe standards of purity and requires all owners or operators of public water systems to comply with primary (health-related) standards.	State government, which assume this power from EPA, also encourages attainment of secondary standards (nuisance-related).
Small Business Liability and Brownfields Revitalization Act	U.S. EPA	This Act was established to provide certain relief for small businesses from liability under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, and to amend CERCLA to promote the cleanup and reuse of brownfields, to provide financial assistance for brownfields revitalization, to enhance state response programs, and for other purposes.	For the purposes of section 104(k), the term 'brownfield site' includes a site that--  '(III) is mine-scarred land.'  and is eligible for Brownfields Revitalization Funding.  <a href="http://www.epa.gov/swerosps/bf/html-doc/hr2869.htm">http://www.epa.gov/swerosps/bf/html-doc/hr2869.htm</a>	Congressman Paul E. Kanjorski (PA-11) today announced that he has succeeded in his four-year effort to include abandoned mine lands in a federal "brownfields" law that would encourage the cleanup of contaminated industrial sites for reuse Expanding the definition of brownfields to include the excavation of culm banks and the removal of other mining waste at abandoned sites will help many communities in Northeastern and Central Pennsylvania and across the country. It will benefit business, create jobs, increase local tax bases, and improve the environment," Congressman Kanjorski said. <a href="http://www.house.gov/kanjorski/02_01_10Brownfields.htm">http://www.house.gov/kanjorski/02_01_10Brownfields.htm</a>

Table 4-1

PROGRAM	AGENCY	PURPOSE	SCOPE	NOTES
Surface Mining Control and Reclamation Act	U.S. Department of the Interior - Office of Surface Mining	Coal mine sites abandoned before August 3, 1977, may be reclaimed under the provisions of Title IV of SMCRA. Taxes on currently mined coal are redistributed to states and Indian tribes for the reclamation of abandoned coal mines and associated waters. After a state has completed this phase of reclamation, it can use these funds to conduct remediation of safety and environmental hazards at abandoned hardrock and non-coal mine sites. <a href="http://www.fs.fed.us/geology/amlpaper.htm">http://www.fs.fed.us/geology/amlpaper.htm</a>	A national coalition of states and tribes, in cooperation especially with the Department of the Interior's Office of Surface Mining Reclamation and Enforcement (OSM), has grown out of SMCRA and has been very effective in promoting good reclamation science and engineering and publicizing the many successes that have occurred in that abandoned mine lands (AML) program. This coalition, the National Association of AML Programs, is led by state agencies and is a major player in the remediation of all types of abandoned mine sites throughout the country. <a href="http://www.fs.fed.us/geology/amlpaper.htm">http://www.fs.fed.us/geology/amlpaper.htm</a>	In FY-99, SMCRA grants totaling \$145,252,000 have been distributed to 26 states and tribes for traditional AML cleanup and the Appalachian Clean Streams program. Fee collections are currently authorized until the end of fiscal year 2004, and at this time there is about \$1.4 billion in the fund carried over from previous years. <a href="http://www.fs.fed.us/geology/amlpaper.htm">http://www.fs.fed.us/geology/amlpaper.htm</a>

Table 4-1

PROGRAM	AGENCY	PURPOSE	SCOPE	NOTES
Uranium Mill Tailings Radiation Control Act (1978 a/k/a UMTRCA or Public Law 95-604)	U.S. Department of Energy	This Act provides regulation of uranium tailings disposal sites; local regulation, zoning, and occupancy requirements; transportation regulations, and other requirements.	Uranium Mill Tailings Remedial Action (UMTRA) Program: Congress acknowledged the potentially harmful health effects associated with uranium mill tailings and designated 24 inactive uranium-processing sites for cleanup. These sites also will be part of the Long-Term Surveillance and Maintenance Program, which provides for surveillance, ground-water monitoring, and maintenance of sites cleaned up under the UMTRA Program. In addition, DOE designated cleanup of properties in the vicinity of the millsites (referred to as vicinity properties) that were contaminated with residual radioactive materials derived from the millsites.	In 1983, the EPA developed standards to protect the public and the environment from potential radiological and nonradiological hazards at abandoned processing sites. These standards include exposure limits for surface contamination and concentration limits for ground water contamination. DOE is responsible for bringing surface and ground-water contaminant levels at the 22 sites (2 sites were delisted) into compliance with EPA standards. DOE is accomplishing this through the UMTRA Surface and Ground Water Projects.

Table 4-1

Table 4-2

## Bureau of Land Management (BLM) AML Sites Funded for FY01

ST	WATERSHED	USGS HUC#	AML PROJECT NAME	SITES INCLUDED	BLM \$	FOREST SERVICE \$	STATE \$	OTHER \$
AK	Hoosier Creek	19040509	Hoosier Creek Valley	Hoosier Creek Valley	20,000	0	0	0
AK	Moose Creek	19040506	HIYU Mine Site	HIYU Mine Site	6,000	0	0	0
AK	Birch Creek	19040402	98 Mile Steese/Birch Creek	98 Mile Steese/Birch Creek	86,000	0	0	0
AK	Koyukuk River	19040601	Gold Bench Drums	Gold Bench Drums	15,000	0	0	0
AK	Quartz Creek	19050105	Quartz/Dahl Creeks	Quartz/Dahl Creeks	10,000	0	0	0
AK	Maclaren River	19020503	Maclaren River	Maclaren River	45,000	0	0	0
AK	Copper River	19020102	Simpson & Brennan	Simpson & Brennan	9,000	0	0	0
AK	Copper River	19020102	Simpson & Brennan	Simpson & Brennan	5,000	0	0	0
AK	Copper River	19020102	Glennallen Inventory	Multiple Sites TBD	5,000	0	0	0
AK BLM Total					201,000	AK Total, All Sources		



ST	WATERSHED	USGS HUC#	AML PROJECT NAME	SITES INCLUDED	BLM \$	FOREST SERVICE \$	STATE \$	OTHER \$
AZ	San Pedro	15,050,202	Armco Mill Site	Armco Mill Site	50,000	0	0	0
AZ	Burro Creek	15,030,202	Hillside Mine	Hillside Mine	70,000	0	0	100,000
AZ	San Francisco Wash	15,030,103	Emerald Isle	Emerald Isle	30,000	0	0	0
AZ BLM Total					200,000	AZ Total, All Sources		
CA	Pajaro	18060002	Jade Mill	4 Retorts	30,000	0	0	5,000
CA	Panoche-San Luis Reservoir	18040014	CalMerc	1 Retort	30,000	0	0	5,000
CA	Panoche-San Luis Reservoir	18040014	Aurora Mine	1 site creek restoration	50,000	0	0	15,000
CA	Upper Yuba	18020125	Bear/Yuba Rivers Mercury Study	55 sites	100,000	100,000	0	200,000
CA BLM Total					210,000	CA Total, All Sources		
CO	Animas	14080104	Lackawanna	1	60,000	0	0	0
CO			Lark and Joe & John	1	250,000	0	0	0
CO	Arkansas	1102001	Lake Fork	1	40,000	0	0	0

Table 4-2

ST	WATERSHED	USGS HUC#	AML PROJECT NAME	SITES INCLUDED	BLM \$	FOREST SERVICE \$	STATE \$	OTHER \$
CO	Gunnison	14020002	Roy Pray 1	1	111,000	0	0	0
CO			Ute-Ulay	1	6,000	0	0	0
CO			Wyoming	1	74,000	0	0	0
CO BLM Total					691,000	CO Total, All Sources		
ID	Big Lost River	17040218	Champagne Creek (DAA2)	Moran Tunnel Lower Champagne Cr.	35,000	0	DEQ	0
ID	Little Lost River	17040217	North Creek (DAA4)	North Creek Mill	3,000	0	DEQ	0
ID	Jordan Creek	17050108	Bridge Creek (DAA3)	Bridge Cr., Meadow Cr.	4,000	0	7,000	50,000
ID	Jordan Creek	17050108	Owyhees Metals Contamination (DAA6)	Silver City Camp	35,000	0	IDL, DEQ	EPA
ID	Big Wood	17040219	Courier Gulch / Triumph Mine area (DAA7)	Courier Gulch, Triumph Mine	268,000	0	IDL, DEQ	Private ASARCO
ID	Camas (Beaver Cr., Willow Cr.)	17040220	Princess Blue Ribbon (DAA1)	Princess Blue Ribbon Mine	25,000	FS	DEQ	30,000 Camas Co

Table 4-2

ST	WATERSHED	USGS HUC#	AML PROJECT NAME	SITES INCLUDED	BLM \$	FOREST SERVICE \$	STATE \$	OTHER \$
ID	Upper Coeur d'Alene River	170103012	Pritchard-Eagle-Beaver Creeks (DAB1)	Gold Back, Mother Lode, Gold Cliff	16,000	FS	30,000	0
ID	Upper Salmon	17060201	Clayton Tailings (DAB3)	Clayton Mine	70,000	0	IDL	1,500,000
ID BLM Total					520,000	ID Total, All Sources		
MT	Boulder River	10020006	Redwing/Waldy	Redwing, North Waldy	390,000	0	0	0
MT	Boulder River	10020006	High Ore Creek	High Ore Creek, King Cole, Golconda Reliance	175,000	0	1,500,000	?
MT	Boulder River	10020006	Basin	Basin	CHF Funds	100,000	0	6,000,000 EPA
MT	Prickly Pear Creek	10030101	Gregory	Gregory	125,000	0	1,000,000	0
MT	Prickly Pear Creek	10030101	Bertha	Bertha	100,000	0	300,000	0
SD	Spruce Gulch	10120202	Belle Eldridge	Belle Eldridge	75,000	0	0	0

Table 4-2

ST	WATERSHED	USGS HUC#	AML PROJECT NAME	SITES INCLUDED	BLM \$	FOREST SERVICE \$	STATE \$	OTHER \$	
MT	Upper Clark Fork	17010201	Litton	Litton	1,000,000	0	200,000	0	
MT	Big Hole River	10020004	Ermont	Ermont	50,000	0	0	0	
MT BLM Total \$\$					2,115,000	MT Total \$\$, All Sources			
NV	Carson	16,050,201	Veta grande	Veta grande mine and mill	90,000	0	0	0	
NV	Upper humboldt	16,040,101	Rip van winkle	Rip van winkle mine and mill	80,000	0	0	0	
NV	Hot creek	16,060,012	Tybo	Tybo mill tailings	50,000	0	0	0	
NV	Panaca valley	15,010,013	Caselton	Caselton mill tailings	50,000	0	0	0	
NV	Diamond-monitor valleys	16,060,005	Norse-windfall	Norse-windfall mill tailings	50,000	0	0	0	
NV	Meadow valley wash	15,010,013	Johnston mill	Johnston millsite	10,000	0	0	0	
OR	Rouge River	17100310	Almeda	?	20,000	0	0	0	20,000

Table 4-2

ST	WATERSHED	USGS HUC#	AML PROJECT NAME	SITES INCLUDED	BLM \$	FOREST SERVICE \$	STATE \$	OTHER \$
OR	Sucker Creek	17100311	Sucker Creek	?	85,000	0	0	0
OR	South Umpqua	17100302	Umpqua	?	78,000	0	0	0
OR	South Umpqua	17100302	Formosa	?	50,000	0	0	0
OR	Ruckles Creek	17050203	Poorman	?	190,000	0	0	0
WA	Similkameen	17020007	Kaaba-Texas	?	8,000	0	0	0
WA	Franklin D. Roosevelt	17010307	Cleveland	?	80,000	0	0	0
WA	Similkameen	17020007	Nighthawk	?	25,000	0	0	0
WA	Franklin D. Roosevelt	17020010	Queen Seal	?	15,000	0	0	0
OR BLM Total \$\$					551,000	OR Total \$\$, All Sources		
UT	Lower San Juan Four Corners	14080201	Cottonwood Wash	62 Sites	158,596	134,726	131,626	0

Table 4-2

ST	WATERSHED	USGS HUC#	AML PROJECT NAME	SITES INCLUDED	BLM \$	FOREST SERVICE \$	STATE \$	OTHER \$
UT	Upper Dolores River	14030002	LaSal Creek	3 Sites	15,000	0	0	0
UT BLM Total \$\$					1,226,596	UT Total \$\$, All Sources		
WY	Sweetwater River	10180006	South Pass District	KAA1- S. Pass Closures	30,000	0	2,470,000	0
WY	Sweetwater River	10180006	South Pass District	KAA2 - Duncan Tailings Remed.	91,000	0	0	0
WY	Sweetwater River	10180006	South Pass District	KAA3 - Hermit/Pine Ck Remed.	65,000	0	2,435,000	0
WY	Muskrat	10080004	Gas Hills District	KAA4 - Road/channel Remed.	100,000	0	300,000	100,000
WY	Upper Big Horn	10080007	Gebo District	KAA5-Gebo Mine Remed	40,000	0	960,000	0
WY	Upper Bear	16010101	Leefe District	KAA6 -SWWY Phosphate Mines	391,000	0	1,219,000	0
WY BLM Total \$\$					717,000	WY Total \$\$, All Sources		

\* as presented in the BLM Web page “List of AML Sites Funded for FY-2001, by BLM State Offices”



**Table 4-3**

**National Park Service (NPS) AML Reclamation Site Summaries**

<b>Site Name</b>	<b>Reclamation</b>	<b>Year started</b>	<b>Status</b>	<b>Partners</b>
Buffalo National River, AR	Closed mines and installed bat gates to protect the bat habitat, and prevent human interference	1993	Complete	Worked closely with US Fish and Wildlife Service, academic bat biologists, and Bat Conservation International
Martin Mine, ID	Excavated and buried waste rock piles, placed topsoil over the waste, reshaped the site and access road, and revegetated	1994 (Work was performed in September and was completed in five days.)	Complete	Funding was provided from the US National Park Service (NPS) Pacific Northwest Region and a cooperative agreement with the Shoshone District of the US Bureau of Land Management (BLM). A local construction contract provided an excavator and operator and a local Boy Scout troop assisted with seeding and mulching
Lassen Volcanic National Park, CA	Geothermal well was plugged and abandoned with four cement plugs; next year, the road and pad will be recontoured and then revegetated	1997	Pending, more work scheduled for next year	BLM, Ukiah Office provided a geothermal engineer; cooperative efforts of the BLM, the USGS, the California Division of Oil, Gas and Geothermal Resources, and the NPS
Lost Horse Mine, CA	Sprayed polyurethane foam (PUF) into the collapsed hole and covered with fill from surrounding disturbed areas, built a replica of the top of the wooded shaft, rehabilitated the historic 10 stamp mill, and filled three peripheral mine adits with PUF	1996	Complete	Financial assistance from the Federal Emergency Management Agency and the historic preservation office of the NPS



<b>Site Name</b>	<b>Reclamation</b>	<b>Year started</b>	<b>Status</b>	<b>Partners</b>
Dorsey Site, MI	Cut and chipped 100 red pines and later used them for mulch and fill material; used fill material from an adjacent ridge to fill the main pit, creating swales to mimic the natural landscape; covered the disturbed areas with topsoil, fine-grained material, and sandy surface material to improve soil-moisture holding capacity, and revegetated	1995	Complete	NPS worked together with an engineering unit of the Michigan National Guard
Cabin Branch Pyrite Mine, VA	Identified the location of shafts, excavated material within mouth of shafts, and plugged shafts with concrete; removed tailings from creek and buried them against the toe of the highwall; shaved the highwall to allow revegetation; tailings were buried with minimum 3 feet of clean fill with fertilizer, mulch, and lime, and revegetated; stable creek channel was established and streambank slopes reduced; diversion ditches were installed	1995	Complete	Cooperative effort between the NPS and the state of Virginia; 319 (non-point source grant) received by Virginia supported 70% of the cost, 30% was covered by the NPS; volunteer groups helped plant thousands of trees

\* as presented in the NPS “Abandoned Mineral Lands Restoration Projects” Web Page

<http://www2.nature.nps.gov/geology/distlands/amlprojects.htm>

**Table 4-4**

**USDA Forest Service AML Reclamation Site Summaries**

<b>Site Name</b>	<b>Reclamation</b>	<b>Year started</b>	<b>Partners</b>
Bear Rock Run Section 319 Project, PA	Construction of treatment ponds, access road construction, anoxic trench construction, and trail construction	N/A	Project sponsor is the Cambria County Conservation and Recreation Authority; administered by the Pennsylvania Department of Environmental Protection, Bureau of Land and Water Conservation; participants are National Work Study Program, Americorps, USDA Soil Conservation Service, Lilly Borough, Highland Sewer and Water Authority, Washington Township, Cooney Bros. Coal Co., Lilly Civic Association, Bear Rock Sportsmen and the Benscreek Sportsmans Club
Hillman Mine Remediation, PA	Rough grading, construction of serpentine rock lined channels, and 2 settlement ponds; revegetation included mulching and fertilizing	N/A	Southern Alleghenies Planning and Development Commission applied for and received financial assistance from the Appalachian Regional Commission; operations in the project were administered on site by the Somerset County Conservation District; Lion Mining donated all the equipment and labor; local environmental groups helped to revegetate the site
Hoffman Mining Inc., PA	Two anoxic limestone drains, two in-line limestone cells, two in-line wetlands, and five in-line ponds have been put in place to eliminate acid mine drainage; research into the ecosystem is ongoing	N/A	Local students and professors have become involved in the ecosystem research along with a geologist/microbiologist from the U.S. Geological Survey (USGS)

<b>Site Name</b>	<b>Reclamation</b>	<b>Year started</b>	<b>Partners</b>
Oven Run/Pokeytown Run Project, PA	Construction of passive wetland treatment systems and limestone drains 4 separate locations	Project expected to start in July 1995 and expected to take 2 years to complete	Somerset County Conservation District with assistance and support of the USDA, Soil (now Natural Resources) Conservation Service (NRCS), and PA Dept. of Environmental Resources, Bureau of Soil and Water Conservation; volunteers offered help in construction and local mining companies expressed willingness to assist
Kleuh Reclamation Project, IN	Poor quality trees were cleared from the site to facilitate grading of the pile; gob pile was leveled, limestone added to neutralize the acid, and the pile was seeded; short slope draining to a field was covered with soil material; areas were fertilized, seeded, and mulched	N/A	Partners for Reclamation Project headed the project; John Jones Logging cleared the trees at no cost; Lubovitch Excavating leveled the pile; Sycamore Trails Resource Conservation and Development Council, sponsor of the project, received funding from Indiana Dept. of Environmental Management for administration, and Indiana Dept. of Natural Resources for the actual site restoration
Pleasant View Mine Project, KY	Barge-mounted pipe aerated and chemically treated the acid water with hydrated lime; coal refuse pile was removed, graded and seeded, mulched, and fertilized	1997	Appalachian Clean Streams Initiative provided funding
Blackwater River Limestone Drum Station, WV	Drum station adds limestone to the river to neutralize the acidic water; doser is used during flood conditions and is activated to bring more limestone to neutralize the waters; Rainbow and Brown trout have been added to the River annually	1994	Not indicated

Table 4-4

**Table 5-1****State Requirements for Hardrock Mine Sites\***

<b>State</b>	<b>Requires Reclamation Plan</b>	<b>Requires Compliance Inspections</b>	<b>Has Authority to Bond</b>
Arizona	No state hardrock mining regulation exists	No state hardrock mining regulation exists	No state hardrock mining regulation exists
California	Reclamation plans required for all large mining operations; some types of small mining operations are exempted from these requirements	Actual inspection and compliance practice may differ between counties in the state	YES
Colorado	YES	YES	YES
Idaho	Reclamation plans required for all large mining operations; some types of small mining operations are exempted from these requirements	YES	YES
Montana	Reclamation plans required for all large mining operations; some types of small mining operations are exempted from these requirements	YES	YES
Nevada	No state hardrock mining regulation exists	No state hardrock mining regulation exists	No state hardrock mining regulation exists
New Mexico	No state hardrock mining regulation exists	No state hardrock mining regulation exists	No state hardrock mining regulation exists

State	Requires Reclamation Plan	Requires Compliance Inspections	Has Authority to Bond
Oregon	Reclamation plans required for all large mining operations; some types of small mining operations are exempted from these requirements	YES	YES
Utah	Reclamation plans required for all large mining operations; some types of small mining operations are exempted from these requirements	YES	YES
Washington	Reclamation plans required for all large mining operations; some types of small mining operations are exempted from these requirements	YES	YES
Wyoming	YES	YES	YES

\* as presented in the 1988 GAO's "Federal Management: An Assessment of Hardrock Mining Damage"

**Table 5-2**  
**State and Tribal AML Programs and Inventory Resources**

<b>State/Tribe</b>	<b>Web site Name</b>	<b>Web site Host</b>	<b>Description</b>	<b>Internet Address</b>
Compilation of States	BLM State AML Programs	Bureau of Land Management	Provides overview of BLM State AML Programs	<a href="http://www.nv.blm.gov/minerals/special/AML_App_2.htm">www.nv.blm.gov/minerals/special/AML_App_2.htm</a>
Compilation of States	Interstate Mining Compact Commission	Interstate Mining Compact Commission	Multi-state governmental agency/organization that represents the natural resource interests of its member states and provides a forum for interstate action and communication on issues of concern to the member states	<a href="http://www.imcc.isa.us">http://www.imcc.isa.us</a>
Navajo Tribe	Navajo Abandoned Mine Lands Reclamation/UMTRA Department	Office of Surface Mining on behalf of the Navajo Nation/Division of Natural Resources	Provides information about the Navajo AML Reclamation program and its coordination with the U.S. OSM in performing reclamation at coal and non-coal (uranium and copper) mine sites	<a href="http://www.navajoaml.osmre.gov/">http://www.navajoaml.osmre.gov/</a>
Alaska	Division of Mining, Land and Water - Abandoned Mine Lands Program	Alaska Department of Natural Resources	Provides information about funding sources and levels, the AML inventory, accomplishments, and contact information of the Alaska AML Program	<a href="http://www.dnr.state.ak.us/mlw/mining/aml.htm">www.dnr.state.ak.us/mlw/mining/aml.htm</a>

<b>State/Tribe</b>	<b>Web site Name</b>	<b>Web site Host</b>	<b>Description</b>	<b>Internet Address</b>
Alaska	The Abandoned Mine Lands Program in Alaska	Bureau of Land Management - Alaska	Provides listing of current and past AML projects in Alaska as well as links to points of contact, and EPA Web pages for further information on particular watersheds of interest	<a href="http://www.ak.blm.gov/">http://www.ak.blm.gov/</a>
Arizona	Abandoned and Inactive Mines	Arizona State Mine Inspector's Office	Provides history of the AZ State Mine Inspector's work and partnership with the BLM and NPS, information about the Abandoned and Inactive Mine survey (A.I.M.) conducted by the State Mining Inspector's office, and links to: frequently asked questions, annual funding report, mine reclamation activities, and mine safety awareness	<a href="http://www.asmi.state.az.us/abandoned.html">http://www.asmi.state.az.us/abandoned.html</a>
Arizona	Arizona Abandoned Mine Program	Bureau of Land Management - Arizona	Provides listing of Arizona AML Projects and links for further information on each	<a href="http://www.az.blm.gov/mines/mines.htm">http://www.az.blm.gov/mines/mines.htm</a>
Arizona	Arizona Department of Mines and Mineral Resources	State of Arizona	Provides information about the Department of Mines and Mineral Resources mine inventory and opportunities to purchase the inventory database	<a href="http://www.admmr.state.az.us/minngen.htm">www.admmr.state.az.us/minngen.htm</a>

Table 5-2

<b>State/Tribe</b>	<b>Web site Name</b>	<b>Web site Host</b>	<b>Description</b>	<b>Internet Address</b>
Arkansas	Surface Mining and Reclamation Division	State of Arkansas Department of Environmental Quality	Provides information about and links for the Arkansas Non-Coal Program, mine site databases for open-cut, coal and quarry mines, and mining handbooks and online brochures	<a href="http://www.adeg.state.ar.us/mining/default.htm">http://www.adeg.state.ar.us/mining/default.htm</a>
Arkansas	Mining Database Information/Open-Cut Mining	State of Arkansas Department of Environmental Quality	Searchable database of open-cut mining sites according to permit ID, mine name, mineral, county, or mine operator	<a href="http://www.adeg.state.ar.us/home/pdssql/pds.asp">http://www.adeg.state.ar.us/home/pdssql/pds.asp</a>
California	SMARA Projects	California Department of Conservation/Mineral Resources Division	Listing of publications of the SMARA mineral land classification project dealing with mineral resources in California	<a href="http://www.consrv.ca.gov/cgs/minerals/mlc/SMARA_publications_2001.pdf">http://www.consrv.ca.gov/cgs/minerals/mlc/SMARA_publications_2001.pdf</a>
California	California Department of Conservation: California Geological Survey	California Department of Conservation	Provides various links including: California Mineral Resources, State Mining and Geology Board, Office of Mine Reclamation, Environmental Resources Evaluation System Web pages	<a href="http://www.consrv.ca.gov/cgs/geologic_resources/mineral_resource_mapping/index.htm">http://www.consrv.ca.gov/cgs/geologic_resources/mineral_resource_mapping/index.htm</a>

Table 5-2



<b>State/Tribe</b>	<b>Web site Name</b>	<b>Web site Host</b>	<b>Description</b>	<b>Internet Address</b>
California	Office of Mine Reclamation	California Office of Mine Reclamation	Provides information and links to: a listing of Eligible Sites for SMARA funding, Abandoned Mine Lands Unit, a listing of other related links	<a href="http://www.consrv.ca.gov/OMR/">http://www.consrv.ca.gov/OMR/</a>
California	Abandoned Mine Lands Unit	California Office of Mine Reclamation	Provides information about the programs partnerships with other agencies and associations and the combined effort to compile an inventory of abandoned mines (a link to the Abandoned Mine Lands Report is included, which presents the findings of the inventory survey)	<a href="http://www.consrv.ca.gov/OMR/abandoned_mine_lands/">http://www.consrv.ca.gov/OMR/abandoned_mine_lands/</a>
California	Abandoned Mine Lands BLM California	Bureau of Land Management - California	Provides listing of AML sites with current projects in California and links to further information for each	<a href="http://www.ca.blm.gov/pa/aml/">http://www.ca.blm.gov/pa/aml/</a>
Colorado	Abandoned Mines	Colorado Department of Natural Resources/Division of Minerals and Geology	Provides information about and links for inactive mine reclamation, mine subsidence protection program, non-point source program, forfeited bond reclamation, and general information about the dangers of abandoned mines	<a href="http://mining.state.co.us/dmginactive.html">http://mining.state.co.us/dmginactive.html</a>

Table 5-2

<b>State/Tribe</b>	<b>Web site Name</b>	<b>Web site Host</b>	<b>Description</b>	<b>Internet Address</b>
Colorado	Mining Data	Colorado Department of Natural Resources/Division of Minerals and Geology	Searchable database of Colorado mine sites	<a href="http://mining.state.co.us/operatordb/">http://mining.state.co.us/operatordb/</a>
Colorado	BLM Colorado Abandoned Mine Lands Program	Bureau of Land Management - Colorado Office	Provides links to project descriptions for mine cleanup that have the greatest impact on public safety and nation's waters	<a href="http://www.co.blm.gov/mines/mine.htm">http://www.co.blm.gov/mines/mine.htm</a>
Florida	Florida Department of Environmental Protection	Florida DEP	Provides information about the new partnership between Florida DEP and the phosphate industry in addressing abandoned phosphate mines, and fund reserves in the NLRTF	<a href="http://www.dep.state.fl.us/secretary/news/2001/01-164.htm">http://www.dep.state.fl.us/secretary/news/2001/01-164.htm</a>
Idaho	Abandoned Mine Land Program	Idaho Department of Lands/ Bureau of Minerals	Provides information on the Idaho Abandoned Mine Land Program and current AML projects	<a href="http://www2.state.id.us/lands/Bureau/Minerals/Abandoned%20Mine%20Program_files/Abandoned%20Mine%20Program.htm">http://www2.state.id.us/lands/Bureau/Minerals/Abandoned%20Mine%20Program_files/Abandoned%20Mine%20Program.htm</a>
Idaho	Idaho's AML Program	Bureau of Land Management - Idaho	Provides background and current information about the Idaho AML Program	<a href="http://www.id.blm.gov/aml/program.htm">http://www.id.blm.gov/aml/program.htm</a>

Table 5-2

<b>State/Tribe</b>	<b>Web site Name</b>	<b>Web site Host</b>	<b>Description</b>	<b>Internet Address</b>
Minnesota	Iron Range Resources and Rehabilitation Agency	Iron Range Resources and Rehabilitation Agency	Provides information about mining programs designed to provide incentives for the exploration of minerals besides iron, and other initiatives to enhance the taconite industry and to reclaim abandoned mine lands	<a href="http://ironrangeresources.org/natural/?page=25">http://ironrangeresources.org/natural/?page=25</a>
Montana	Mine Waste Cleanup Bureau (MWCB)	Montana Department of Environmental Quality	Provides information about the MWCB, reclamation guidance, interactive maps, historical narratives, and priority site listings (Superfund and SMCRA)	<a href="http://www.deq.state.mt.us/em/mwcb/index.asp">http://www.deq.state.mt.us/em/mwcb/index.asp</a>
Montana	Mine Waste Cleanup Bureau (MWCB) - Downloads Webpage	Montana Department of Environmental Quality	Five Statewide, downloadable, databases pertaining to Montana inactive mine sites.	<a href="http://www.deq.state.mt.us/AbandonedMines/download.asp">http://www.deq.state.mt.us/AbandonedMines/download.asp</a>
Montana	Abandoned-Inactive Mines Inventory of USFS and BLM - Administered Land in Montana	Montana Bureau of Mines and Geology (MBMG)	Provides information about the abandoned-inactive mine inventory compiled through a partnership between the USFS, BLM, and MBMG, definition for abandoned and inactive mines, and a description of the inventory database	<a href="http://www.mbm.mtech.edu/env-abldbms.htm#database">http://www.mbm.mtech.edu/env-abldbms.htm#database</a>

Table 5-2

<b>State/Tribe</b>	<b>Web site Name</b>	<b>Web site Host</b>	<b>Description</b>	<b>Internet Address</b>
Montana/Dakotas	Montana/Dakotas Abandoned Mine Land Program	Bureau of Land Management - Montana/Dakotas Office	Provides listing of AML project descriptions and links for further information on each	<a href="http://www.mt.blm.gov/aml/">http://www.mt.blm.gov/aml/</a>
Nevada	Abandoned Mine Lands	State of Nevada Commission on Mineral Resources/Division of Minerals	Provides various links to information for AMLs, AML reclamation/restoration activities, and current AML statistics in Nevada	<a href="http://minerals.state.nv.us/">http://minerals.state.nv.us/</a>
Nevada	Nevada's Abandoned Mine Land Program	Bureau of Land Management - Nevada Office	Provides general information about the AML Program in Nevada and lists current, past and future AML projects with links to further information for each	<a href="http://www.nv.blm.gov/AML/">http://www.nv.blm.gov/AML/</a>
New Mexico	Abandoned Mine Lands Program - New Mexico, Oklahoma, Kansas, Texas (information is listed for New Mexico only)	Bureau of Land Management - New Mexico Office	Provides information about AML projects in New Mexico, State of New Mexico and BLM partnership, watersheds affected by AMLs, and links for further information on each	<a href="http://www.nm.blm.gov/nms/o/aml/aml_home.htm">http://www.nm.blm.gov/nms/o/aml/aml_home.htm</a>
New Mexico	Abandoned Mine Land Bureau	New Mexico's Energy, Minerals and Natural Resources Department (EMNRD)	Provides information about the New Mexico AML Program and potential hazards associated with abandoned mines	<a href="http://www.emnrd.state.nm.us/">http://www.emnrd.state.nm.us/</a>

Table 5-2

<b>State/Tribe</b>	<b>Web site Name</b>	<b>Web site Host</b>	<b>Description</b>	<b>Internet Address</b>
North Carolina	Mining Program	Land Quality Section/Division of Land Resources/NC Department of Environment and Natural Resources	Provides information about and links for the NC Mining Program, mining industry indicators, inventories of permitted active and inactive mines in NC, and current news briefs about the NC mining industry	<a href="http://www.dlr.enr.state.nc.us/mining.html">http://www.dlr.enr.state.nc.us/mining.html</a>
North Dakota	Mineral Resources of North Dakota	North Dakota Geological Survey and the Department of Geosciences at North Dakota State University	Provides information about and links for various types of mining in ND including uranium	<a href="http://www.state.nd.us/ndgs/minerals/minerals.htm">http://www.state.nd.us/ndgs/minerals/minerals.htm</a>
Oregon	Mined Land Reclamation Program	The Oregon Department of Geology and Mineral Industries	Provides information about the Oregon Mined Land Reclamation Program	<a href="http://www.oregongeology.com/mlr/mlrhome.htm">http://www.oregongeology.com/mlr/mlrhome.htm</a>
Oregon/Washington	Oregon/Washington Abandoned Mine-Land Program	Bureau of Land Management - Oregon/Washington Office	Provides information about AML project sites as organized by watersheds	<a href="http://www.or.blm.gov/Resources/Minerals/aml/index.html">http://www.or.blm.gov/Resources/Minerals/aml/index.html</a>
South Carolina	U.S. Geological Survey (USGS) Programs in South Carolina	U.S. Geological Survey	Provides information about and links for the South Carolina mineral resource data system, which is based off of the USGS's MRDS and MAS systems	<a href="http://water.usgs.gov/pubs/FS/FS-040-96/">http://water.usgs.gov/pubs/FS/FS-040-96/</a>

Table 5-2

<b>State/Tribe</b>	<b>Web site Name</b>	<b>Web site Host</b>	<b>Description</b>	<b>Internet Address</b>
South Dakota	Inactive and Abandoned Mines in the Black Hills	South Dakota - Department of the Environment and Natural Resources (DENR)/Minerals and Mining Program	Provides information about the inactive and abandoned mine lands (IAMs) inventory conducted by the SD School of Mines and Technology and DENR's reclamation activities at those identified IAM sites	<a href="http://www.state.sd.us/denr/DES/mining/acidmine.htm">http://www.state.sd.us/denr/DES/mining/acidmine.htm</a>
Texas	Abandoned Mine Lands Reclamation Program	Texas Railroad Commission	Provides information about the AML Reclamation program and its current focus on uranium mines	<a href="http://www.rrc.state.tx.us/divisions/sm/programs/aml/aboutaml.htm">http://www.rrc.state.tx.us/divisions/sm/programs/aml/aboutaml.htm</a>
Utah	Utah Abandoned Mine Land Program	Bureau of Land Management - Utah Office	Provides information about the Utah AML Program, AML projects organized by watersheds, and links for further information on each	<a href="http://www.blm.gov/utah/minerals/aml/aml_blm.html">http://www.blm.gov/utah/minerals/aml/aml_blm.html</a>
Utah	Utah Abandoned Mine Reclamation	State of Utah - Department of Natural Resources/Division of Oil, Gas, and Mining	Provides information and links for AML reclamation (including a downloadable version of "The Practical Guide to Reclamation in Utah"), education, community outreach and current AML projects in Utah	<a href="http://dogm.nr.state.ut.us/amlr/default.htm">http://dogm.nr.state.ut.us/amlr/default.htm</a>

Table 5-2

<b>State/Tribe</b>	<b>Web site Name</b>	<b>Web site Host</b>	<b>Description</b>	<b>Internet Address</b>
Washington	Mine Reclamation Program	Washington State Department of Natural Resources	Provides information about and links for the Washington Mine Reclamation Program, surface mine reclamation, inactive and abandoned metal mines, and online mine reclamation publications	<a href="http://www.dnr.wa.gov/geology/">http://www.dnr.wa.gov/geology/</a>
Washington	SURFMINES	Washington State Department of Natural Resources	Downloadable GIS coverage containing the locations of mines with current or terminated Washington DNR Reclamation Permits	<a href="http://www.dnr.wa.gov/geology/smgis.htm">http://www.dnr.wa.gov/geology/smgis.htm</a>
Washington	Directory of Washington Mines, 2001	Washington State Department of Natural Resources/Division of Geology and Earth Resources	Indices of Washington mines organized by operator, county, and commodity	<a href="http://www.dnr.wa.gov/geology/pdf/ic94.pdf">http://www.dnr.wa.gov/geology/pdf/ic94.pdf</a>
Wisconsin	Metallic Mining In Wisconsin	Wisconsin Department of Natural Resources	Provides general information about metallic mining in Wisconsin and the role of the DNR	<a href="http://www.dnr.state.wi.us/org/aw/wm/mining/Metallic/">http://www.dnr.state.wi.us/org/aw/wm/mining/Metallic/</a>
Wyoming	Abandoned Mine Land Division	Wyoming State Abandoned Mine Land Division - Division of Wyoming DEQ	Provides information about the Wyoming DEQ's AML Program, its funding approaches, links for current AML projects and site information	<a href="http://deq.state.wy.us/aml/index.asp?pageid=7">http://deq.state.wy.us/aml/index.asp?pageid=7</a>

Table 5-2